

Computer Networks 33 (2000) xiii-xvii



www.elsevier.com/locate/comnet

## Contents

Welcome to WWW9!	- 11
Message from the Program Committee Chair	Vi
Credits	i
Performance  N. Bhatti, A. Bouch and A. Kuchinsky Integrating user-perceived quality into Web server design	
B. Krishnamurthy and C.E. Wills Analyzing factors that influence end-to-end Web performance	17
P. Rodriguez and S. Sibal SPREAD: scalable platform for reliable and efficient automated distribution	33
Security D.P. Kormann and A.D. Rubin	
Risks of the Passport single signon protocol	51
E. Damiani, S. De Capitani di Vimercati, S. Paraboschi and P. Samarati Design and implementation of an access control processor for XML documents	59
B. Hashii, S. Malabarba, R. Pandey and M. Bishop Supporting reconfigurable security policies for mobile programs	77
Rich queries E. Spertus and L.A. Stein	
Squeal: a structured query language for the Web	95
T.A. Phelps and R. Wilensky Robust intra-document locations	105
D. Florescu, D. Kossmann and I. Manolescu ntegrating keyword search into XML query processing	119

XML session-1 S. Ceri, P. Fraternali and A. Bongio Web Modeling Language (WebML): a modeling language for designing Web sites	137
G.J. Badros JavaML: a markup language for Java source code	159
P. van Amstel, P. van der Eijk, E. Haasdijk and D. Kuilman An interchange format for cross-media personalized publishing	179
Mobile access M. Hori, G. Kondoh, K. Ono, Si. Hirose and S. Singhal Annotation-based Web content transcoding	197
O. Buyukkokten, H. Garcia-Molina and A. Paepcke Focused Web searching with PDAs	213
E. Kaasinen, M. Aaltonen, J. Kolari, S. Melakoski and T. Laakko Two approaches to bringing Internet services to WAP devices	231
Storage infrastructure  R. Stata, K. Bharat and F. Maghoul  The Term Vector Database: fast access to indexing terms for Web pages	247
B.E. Brewington and G. Cybenko How dynamic is the Web?	257
J. Hirai, S. Raghavan, H. Garcia-Molina and A. Paepcke WebBase: a repository of Web pages	277
Web characterization M.R. Henzinger, A. Heydon, M. Mitzenmacher and M. Najork On near-uniform URL sampling	295
A. Broder, R. Kumar, F. Maghoul, P. Raghavan, S. Rajagopalan, R. Stata, A. Tomkins and J. Wiener Graph structure in the Web	309
A. Feldmann BLT: Bi-layer Tracing of HTTP and TCP/IP	321
Practice and experience C. Hölscher and G. Strube Web search behavior of Internet experts and newbies	337
K. Forsberg and L. Dannstedt Extensible use of RDF in a business context	347
S.L. Fowler, AM.J. Novack and M.J. Stillings The evolution of a manufacturing Web site	365

Hypermedia and link analysis  R.R. Sarukkai  Link prediction and path analysis using Markov chains	377
R. Lempel and S. Moran The stochastic approach for link-structure analysis (SALSA) and the TKC effect	387
H. Weinreich and W. Lamersdorf Concepts for improved visualization of Web link attributes	403
Search and ranking  A. Sugiura and O. Etzioni  Query routing for Web search engines: architecture and experiments	417
L. Huang, M. Hemmje and E.J. Neuhold ADMIRE: an adaptive data model for meta search engines	431
D. Zhang and Y. Dong An efficient algorithm to rank Web resources	449
S. Mukherjea WTMS: a system for collecting and analyzing topic-specific Web information	457
Tools S. Staab, J. Angele, S. Decker, M. Erdmann, A. Hotho, A. Maedche, HP. Schnurr, R. Studer and Y. Sure Semantic community Web portals	473
K. Bharat SearchPad: explicit capture of search context to support Web search	493
V. Anupam, J. Freire, B. Kumar and D. Lieuwen Automating Web navigation with the WebVCR	503
J.C. Shafer and R. Agrawal Continuous querying in database-centric Web applications	519
Hypermedia S. Rollins and N. Sundaresan AVoN calling: AXL for voice-enabled Web navigation	533
K. Grønbæk, L. Sloth and N.O. Bouvin Open hypermedia as user controlled meta data for the Web	553
P. Pan and G. Davenport I-Views: a community-oriented system for sharing streaming video on the Internet	567
S. Goose, M. Newman, C. Schmidt and L. Hue Enhancing Web accessibility via the Vox Portal and a Web-hosted dynamic HTML↔VoxML converter	583

Architecture M. Spreitzer and B. Janssen	500
HTTP 'Next Generation'	593
V. Krishnan and S.G. Chang Customized Internet radio	609
A.C. Huang, B.C. Ling, J.J. Barton and A. Fox Running the Web backwards: appliance data services	619
Caching KL. Wu and P.S. Yu Latency-sensitive hashing for collaborative Web caching	633
J. Jung, D. Lee and K. Chon Proactive Web caching with cumulative prefetching for large multimedia data	645
S. Gruber, J. Rexford and A. Basso Protocol considerations for a prefix-caching proxy for multimedia streams	657
Data mining S. Chakrabarti, S. Srivastava, M. Subramanyam and M. Tiwari Using Memex to archive and mine community Web browsing experience	669
W.W. Cohen and W. Fan Web-collaborative filtering: recommending music by crawling the Web	685
N. Sundaresan and J. Yi Mining the Web for relations	699
XML session-2	
A. Cawsey Presenting tailored resource descriptions: will XSLT do the job?	713
M. Fernández, WC. Tan and D. Suciu SilkRoute: trading between relations and XML	723
M. Girardot and N. Sundaresan Millau: an encoding format for efficient representation and exchange of XML over the Web	747
E-commerce  J.A. Tomlin  An entropy approach to unintrusive targeted advertising on the Web	767
N. Abe and T. Kamba A Web marketing system with automatic pricing	775
J. Brustoloni and J. Garay MicroISPs: providing convenient and low-cost high-bandwidth Internet access	789

Contents / Computer Networks 33 (2000) xiii-xvii	xvii
Content and control  I. Martinez, S. Perry and J. Cupitt  Object browsing using the Internet Imaging Protocol	803
T. Nakayama, H. Kato and Y. Yamane Discovering the gap between Web site designers' expectations and users' behavior	811
D. Rafiei and A.O. Mendelzon What is this page known for? Computing Web page reputations	823
Author Index	837

841

Subject Index

